

## ABSTRACT

Disclosed herein is an apparatus and method for retrieving face images using combined component descriptors. The apparatus of the present invention includes an 5 image division unit for dividing an input image into facial components, a first Linear Discriminant Analysis transformation unit for LDA transforming the divided facial components into component descriptors of the facial components, a vector synthesis unit for synthesizing the transformed component descriptors into a single vector, a second Generalized Discriminant Analysis transformation unit for GDA transforming 10 the single vector into a single face descriptor, and a similarity determination unit. The similarity determination unit determines similarities between an input query face image and face images stored in a face image database by comparing a face descriptor of the input query face image with face descriptors of the face images stored in the face image database.

15